Abstract

A pressure sensor having a diaphragm (1) which is differently deformable or locally changeable by pressure differences is described. A construction advantageously usable even in poorly accessible spaces having high temperatures is obtained in that at least one functional section (1.1) of the diaphragm (1) has a material which has the properties of a black-body radiator or has an emissivity essential for detection in the spectral radiation range corresponding to the temperature of the diaphragm (1) under its conditions of use, and a radiation receiver unit, which detects at least a portion of the emitted radiation, having at least one infrared radiation sensor (4), is assigned to the diaphragm (1) (Figure 1).